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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/578,454	02/08/2007	John Stephen Bridger	U 016288-6	2101	
	140 7590 06/02/2009 LADAS & PARRY LLP			EXAMINER	
26 WEST 61ST STREET			SHEN, BIN		
NEW YORK, NY 10023			ART UNIT	PAPER NUMBER	
			1657		
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			06/02/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/578,454	BRIDGER ET AL.
Office Action Summary	Examiner	Art Unit
	BIN SHEN	1657
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPOWHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed  the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>08</u> .  2a)  This action is <b>FINAL</b> . 2b)  Th  3)  Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4)  Claim(s) <u>26-50</u> is/are pending in the applicati 4a) Of the above claim(s) is/are withdrest signal is/are allowed.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) <u>26-50</u> are subject to restriction and/or	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examir 11.	ecepted or b) objected to by the e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bure.  * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat fority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal I 6)  Other:	ate

Art Unit: 1657

## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 26-49, drawn to a method for selectively enriching for a microorganism to metabolize a test substrate.

Group II, claim(s) 50, drawn to a microorganism.

Group III, claim(s) 26-49, drawn to a method for selectively enriching for an enzyme to metabolize a test substrate.

Group IV, claim(s) 50, drawn to an enzyme.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PC'I" Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Unity of invention exists only when there is a technical relationship among the claimed inventions involving one or more special technical features. The term "special technical features" is defined as meaning those technical features that define a contribution which each of the inventions considered as a whole, makes over the prior art. The determination is made based on the contents of the claims as interpreted in light of the description and drawings.

In the instant application, the inventions of groups I-IV do not share a common special technical feature or one that is a contribution over the art, as the method of group I has been taught by Acha (1999), who teaches a method for selectively enriching for a microorganism (page 43, Fig. 2, and 2nd paragraph) to metabolize test substrate such as trichloroethylene (listed on page 43, lines 5-6). Furthermore, a microorganism is not an enzyme. Therefore, the method, microorganism, and enzyme do not form a single general inventive concept.

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## Election of Species

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This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- A. The type of metabolism indicators from among those instantly claimed-i.e., oxygen, carbon dioxide, carbonate, etc.,-see, e.g., claims 32, 33.
- B. The type of population of microorganisms from among those instantly claimedi.e. heterogeneous, homogeneous,-see, e.g., claims 39 & 42.
- C. The type of selective pressure from among those instantly claimed-i.e., pH, temperature, aeration, etc.,-see, e.g., claim 48.

Applicant is required, in reply to this action, to elect <u>a single species from each type</u> (A-C) to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the inventions of groups I-IV do not share a common special technical feature, as the molecule of group I has been taught by Acha (1999), who teaches a method for selectively enriching for a microorganism (page 43, Fig. 2, and 2nd paragraph) to metabolize test substrate such as trichloroethylene (listed on page 43, lines 5-6), thus, the species listed above do not relate to a single general inventive concept under PCT Rule 13.1.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1 .143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Certain papers related to this application may be submitted to Art Unit 1636 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone number for the Group is 571-273-8300. NOTE: If Applicant *does* submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Any inquiry concerning rejections or objections in this communication or earlier communications from the examiner should be directed to Bin Shen, whose telephone number is (571) 272-9040. The examiner can normally be reached on Monday through Friday, from about 9:00 AM to about 5:30 PM. A phone message left at this number will be responded to as soon as

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possible (i.e., shortly after the examiner returns to her office).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached at (571) 272-0775.

B Shen

AU 1657

/Karen Cochrane Carlson/

Primary Examiner, Art Unit 1656